| Ref<br>#    | Hits | Search Query-  | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|-------------|------|--|---|---------------------|---------|------------------|
| . <b>13</b> | 133  | (subfield (sub ad) field)) and (tim\$3 adj controller)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | ÖR                  | ON      | 2005/09/23 10:26 |
| L5          | 786  | (subfield (sub adj field)) and (tim\$3 adj control\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 09:54 |
| L6          | 136  | 5 and (frame near (memory storage buffer))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 09:56 |
| L7          | 23   | 6 and ((first and second) near3 writ\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 09:55 |
| L8          | 23   | 5 and ((writ\$4 and read\$3) with (frame near (memory storage buffer)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23:10:16 |
| L9          | 6143 | ((writ\$4 and read\$3) with (frame near (memory storage buffer)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 10:17 |
| L10         | 1235 | 9 and (writ\$4 with (two twice) with read\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 10:17 |
| L11         | 434  | 9 and ((writ\$4 near3 (two twice)) with read\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 10:18 |
| L12         | 547  | 9 and ((writ\$4 near3 (two twice consecutive\$2 successive\$3 succeed\$3)) with read\$3)                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON.     | 2005/09/23:10:19 |
| L13         | 52   | 9 and ((writ\$4 near3 (two twice consecutive\$2 successive\$3 succeed\$3)) with "between" with read\$3)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 10:25 |
| L14         | 1197 | 9 and (timing near (chart diagram))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23:10:25 |
| L15         | 243  | 9 and ((timing near (chart diagram)) with ((writ\$4 stor\$3 input\$4) and (read\$3 retriev\$3 output\$4)))         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 10:33 |
| L16         | 6    | 15 and (subfield:(sub adj field))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 10:27 |
| L17         | 9    | ("5298893"   "5315695"   "5347294"   "5541618"   "5583527"  <br>"5943032"   "5956014"   "6100859"   "6104362").PN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR                  | ON      | 2005/09/23 10:31 |
| L18         | 109  | 9 and ((subfield (sub adj (frame field))) with ((writ\$4 stor\$3 input\$4) and (read\$3 retriev\$3 output\$4)))    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR                  | ON      | 2005/09/23 10:35 |

| L19        | 41        | (NIWA near AKIO).in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/09/23 10:36 |
|------------|-----------|--|---|-------|----------|------------------|
| L20        | 16        | ("4603350"   "5315327"   "5534934"   "5661525"   "5933196"  <br>"5978958"   "5999227"   "6034666"   "6034733"   "6147712"  <br>"6262779"   "6268887"   "6310654"   "6396542"   "6404458"  <br>"6507346").PN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR    | ON       | 2005/09/23:13:12 |
| S1         | 1         | 10/713005  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 09:00 |
| S2         | 61        | 345/533.ccls:  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 09:00 |
| S3         | 3         | S2 and (serial\$2 near5 (read\$3 and writ\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 09:09 |
| S4         | 439       | 345/545:ccls:  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17:09:02 |
| S5         | 7         | S2 and S4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 09:09 |
| S6         | 344       | access\$3 with ((sub adj field) subfield)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 09:09 |
| <b>S</b> 7 | 12        | S6 and (serial\$2 near5 (read\$3 and writ\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 10:31 |
| S8         | 67        | ((sub adj field) subfield) and (serial\$2 near5 (read\$3 and writ\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 09:29 |
| S9         | 35        | S8 and frame   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 09:29 |
| S10        | 254       | ((sub adj field) subfield) with (read\$3 and writ\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 10:36 |
| S11        | 171       | S10 and frame  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 09:30 |
| S12<br>S13 | 4<br>1402 | ("4044349":   "5387923"   "5748165"   "5847688");PN.<br>345/60.ccls,   | US-PGPUB;<br>USPAT;<br>USOCR<br>US-PGPUB;   | OR OR | ON<br>ON | 2005/05/17:10:30 |
| S14        | 532       | 345/531:ccls:  | USPAT;<br>EPO; JPO;<br>IBM_TDB              |       |          | 2005/05/17 10:31 |
| 514        | 532       | STO(SS)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR    | ON       | 2005/05/17 10:31 |

| S16 | 1    | S13 and (serial\$2 near5 (read\$3 and writ\$4))                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/05/17 10:36 |
|-----|------|---|---|----|----|------------------|
| S17 | 53   | S10 and S13   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/05/17:10:32 |
| S18 | 170  | ((sub adj field) subfield) with (read\$3 with writ\$4)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/05/17 13:37 |
| S20 | 26   | S18 and S13   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/05/17 10:37 |
| S21 | 4    | ("4044349"   "5387923"   "5748165"   "5847688").PN.                   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON | 2005/05/17 10:40 |
| S22 | 79   | plasma and ((sub adj field) subfield) with (read\$3 with writ\$4)     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/05/17:13:54 |
| S23 | 54   | ("5436634").URPN.   | USPAT                                       | OR | ON | 2005/05/17 13:50 |
| S24 | 170  | ((sub adj field) subfield) with (read\$3 with writ\$4)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/05/17 13:54 |
| 527 | 23   | S24 and ((read\$3 and writ\$4) near5 pulse)                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/05/17 15:50 |
| S28 | 57   | "5436634"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/05/17 15:50 |
| 529 | 9    | ("5898414").URPN.   | USPAT                                       | OR | ON | 2005/05/17 16:56 |
| S30 | 1    | 10/713005   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/19 17:08 |
| S31 | 792  | (subfield (sub adj field)) and ((frame display) near (buffer memory)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/19 17:10 |
| S32 | 265  | ((sub adj field) subfield) with (read\$3 and writ\$4)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/19 17:10 |
| S33 | 85   | S32 and ((frame display) near (buffer memory))                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/19 17:38 |
| S35 | 1531 | 345/60.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/19:17:34 |
| S36 | 5    | ("5898414" "6025818" "6243073" "6268838" "6448960").PN.               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/19 17:39 |

| S37 | 1     | ("6407506").PN.  | US-PGPUB;                                   | OR | ON  | 2005/09/19 17:39 |
|-----|-------|--|---|----|-----|------------------|
|     |       |  | USPAT;<br>EPO; JPO;<br>IBM_TDB              |    |     |                  |
| S38 | 1     | ("6204833"):PN:  | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2005/09/21 07:40 |
| S39 | 1534  | 345/60.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 10:50 |
| S40 | 144   | S39 and (read\$3 with writ\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21:10:56 |
| S41 | 462   | 345/545.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 10:53 |
| 542 | 0     | S39 and S41  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21:10:53 |
| S43 | 1     | 10/71305   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 10:56 |
| S44 | 1     | .10/713005   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 14:00 |
| S45 | 0     | ((10/713,005) or (10/730,932) or (10/738,090) or (10/617,233) or (10/625,877) or (10/810,618)).CCLS. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2005/09/21 11:09 |
| S46 | 8     | 10/713,005 10/730,932 10/738,090 10/617,233 10/625,877<br>10/810,618                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 11:13 |
| S47 | 23474 | (buffer same (read\$3 and writ\$4)) and display  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 11:16 |
| S48 | 4232  | S47 and "345"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 11:15 |
| S49 | 3846  | S48 and (@ad<"20021101")   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 11:16 |
| S50 | 44390 | (buffer with (read\$3 and writ\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 11:17 |
| S51 | 2967  | S49 and (buffer with (read\$3 and writ\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/21 11:19 |
| S52 | 68    | S51 and 345/539.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON. | 2005/09/21 11:19 |

| S53 | 5     | ("5307056"   "5587726"   "5742788"   "6195106"   "6300963").<br>PN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON | 2005/09/21 11:42 |
|-----|-------|---|---|----|----|------------------|
| S54 | 397   | (frame:near (buffer:memory)) and ((read\$3 and writ\$4) with interleav\$3)                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/21:11:47 |
| S55 | 30    | S54 and (subfield (sub adj field))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM TDB | OR | ON | 2005/09/21 15:02 |
| S56 | 689   | (frame:near (buffer:memory)):and (subfield (sub adj field))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/21:11:48 |
| S57 | 112   | (frame near (buffer memory)) and ((subfield (sub adj field)) with ((read\$3 retriev\$3) and (stor\$3 writ\$4))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/21 15:03 |
| S58 | 19    | S56 and ((read\$3 and writ\$4) near5 pulse)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM TDB | OR | ON | 2005/09/21:14:01 |
| S59 | 7     | ("3906290"   "4383256"   "4870324"   "5187578"   "5317334"  <br>"5436634"   "5619228").PN.                      | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON | 2005/09/21 15:01 |
| S60 | 1229  | 345/690-694.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM TDB | OR | ON | 2005/09/21 15:02 |
| S61 | 150   | S60 and (subfield (sub adj field))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/21 15:02 |
| S62 | 39    | S60 and ((subfield (sub ad) field)) with ((read\$3 retriev\$3) and (stor\$3 writ\$4)))                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/21 15:03 |
| S63 | 54    | ("5436634").URPN.   | USPAT                                       | OR | ON | 2005/09/21 15:42 |
| S64 | 19    | ("6292159"):URPN:   | USPAT                                       | OR | ON | 2005/09/21 16:06 |
| S65 | 191   | (read\$3 and writ\$4) with ((subfield (sub adj (field frame))))   | USPAT                                       | OR | ON | 2005/09/21 16:42 |
| S66 | 25    | S65 and ((alternate\$2 interleav\$3) with (read\$3 and writ\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/21 16:17 |
| S68 | 122   | (read\$3 with writ\$4) with ((subfield (sub adj (field frame))))  | USPAT                                       | OR | ON | 2005/09/21 16:43 |
| S69 | 100   | (read\$3 with writ\$4) with ((subfield (sub adj field )))   | USPAT                                       | OR | ON | 2005/09/21 16:43 |
| S70 | 4     | ("4044349"   "5387923"   "5748165"   "5847688").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON | 2005/09/22 08:03 |
| S71 | 6065  | (consecutive\$2 with writ\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/22 08:30 |
| S72 | 10675 | ((successive\$2 consecutive\$2) with (read\$3 and writ\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/22 08:31 |
| S73 | 168   | S72 and (subfield (sub adj field))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2005/09/22:12:38 |

| S74 | 54    | ("5436634").URPN.  | USPAT                                       | OR | ON  | 2005/09/22 09:22 |
|-----|-------|--|---|----|-----|------------------|
| S75 | 462   | 345/545:ccls:  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 09:23 |
| S76 | 0     | S75 and ((read\$3 and writ\$4) with (subfield (sub adj field)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 09:24 |
| S77 | 83    | (frame near (memory buffer storage)) and ((read\$3 and writ\$4)<br>with (subfield (sub adj field)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22:11:21 |
| S78 | 110   | (frame near (memory buffer storage)) and ((read\$3 and (writ\$4 stor\$3)) with (subfield (sub adj field)))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 10:12 |
| S79 | 6     | ("20020021264" "20020036610" "6052112" "6097358" "629215<br>9" "6614413").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22:11:16 |
| S80 | 42901 | (writ\$4 with "between" with read\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 11:16 |
| S81 | 34    | (writ\$4:with:"between" with read\$3) with (subfield subframe (sub adj (field frame)))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 11:53 |
| S82 | 102   | (frame near (memory buffer storage)) and (((read\$3 retriev\$3) and (output\$4 writ\$4)) with (subfield (sub adj field)))                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 11:22 |
| S83 | 331   | (frame near (memory buffer storage)) and (((read\$3 retriev\$3 input\$4) and (output\$4 writ\$4 stor\$3)) with (subfield (sub adj (frame field)))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 11:24 |
| 584 | 123   | S83 and ((subsequent\$2 successive\$2 consecutive\$2) with (writ\$4 output\$4 stor\$3))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 11:41 |
| S85 | 218   | (writ\$4 with line) and (read\$3 with (subfield (sub adj (frame field))))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON. | 2005/09/22 11:42 |
| S86 | 57    | S85 and (writ\$4 with "between" with read\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 12:36 |
| S87 | 16487 | (frame near (buffer memory)) with ((read\$2 output\$4 retriev\$3)<br>and (writ\$\$4 input\$4 stor\$3))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 12:40 |
| S88 | 284   | S87 and (subfield (sub adj field))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 12:41 |
| S89 | 13759 | (frame near (buffer memory)) with ((read\$2 output\$4 retriev\$3) with (writ\$\$4 input\$4 stor\$3))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2005/09/22 12:40 |

| S90        | 237 | S89 and (subfield (sub adj field))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB                                 | OR    | ON    | 2005/09/22 12:42 |
|------------|-----|---|---|-------|-------|------------------|
| S92<br>S93 |     | \$90 and (((read\$3 output\$3 retriev\$3) and (writ\$4 input\$4 stor\$3)) near2 pulse)  ("5103311"   "5467465"   "5742406"   "5850268"   "6038584"   "6070003"   "6188381"   "6657640"   "6657674"   "6738356"   "6791555").PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB<br>US-PGPUB;<br>USPAT;<br>USOCR | OR OR | ON ON | 2005/09/22:13:04 |